

# AIRFOIL



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## CUSTOM REMOVABLE CORE LINEAR SLOT DIFFUSER (CRCLSD)

Airfoil's Custom Removable Core Linear Slot Diffuser is generally ceiling mounted and can be used for both supply and return air functions. The slots can be adjusted to provide a variable air throw pattern from vertical to horizontal. The removable core provides easy installation and cleaning. The product comes complete with safety chain.

Airfoil's superior design delivers greater air volume per slot and less noise for more effective room air circulation.

### Custom Removable Core Linear Slot Diffuser Options

> Slot widths of either 20mm or 25mm

> Recommended single length 4.5m, maximum 6m

> Up to 4 slots

### Product specification codes:

|   |   |
|---|---|
| <b>CRCLSD125</b> One slot linear diffuser with 25mm spacing   | <b>CRCLSD120</b> One slot linear diffuser with 20mm spacing   |
| <b>CRCLSD225</b> Two slot linear diffuser with 25mm spacing   | <b>CRCLSD220</b> Two slot linear diffuser with 20mm spacing   |
| <b>CRCLSD325</b> Three slot linear diffuser with 25mm spacing | <b>CRCLSD320</b> Three slot linear diffuser with 20mm spacing |
| <b>CRCLSD425</b> Four slot linear diffuser with 25mm spacing  | <b>CRCLSD420</b> Four slot linear diffuser with 20mm spacing  |

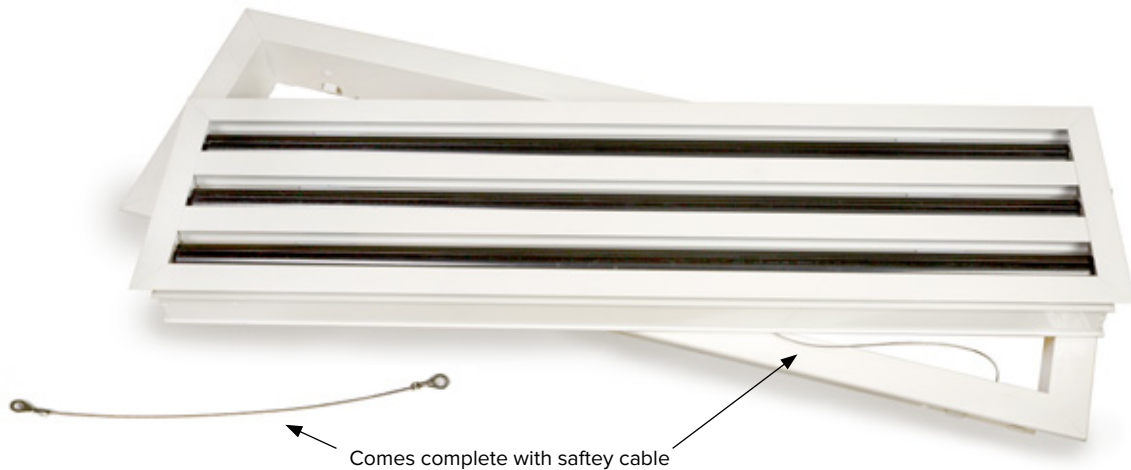
Specification: Product code + size.

Example: **CRCLSD425** Four slot linear diffuser with 25mm spacing and nominal neck size of 1200mm

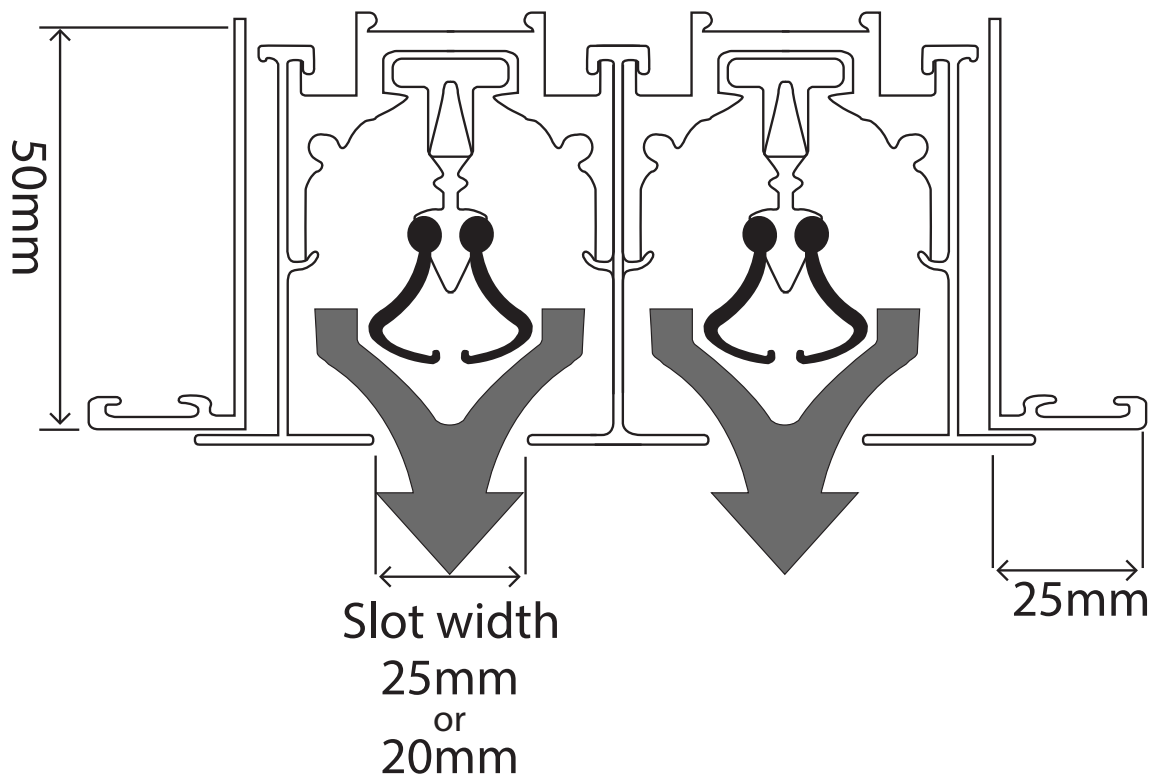
**Important Note:** Dimensions will be assumed nominal neck size unless otherwise specified.



# CUSTOM REMOVABLE CORE LINEAR SLOT DIFFUSER



Cross sectional diagram



# CUSTOM REMOVABLE CORE LINEAR SLOT DIFFUSER

| PRODUCT CODE | SLOT | SLOT WIDTH | EXACT NECK SIZE | FACE SIZE |
|--------------|------|------------|-----------------|-----------|
| CRCLSD125    | 1    | 25         | 60              | 105       |
| CRCLSD225    | 2    | 25         | 105             | 150       |
| CRCLSD325    | 3    | 25         | 150             | 195       |
| CRCLSD425    | 4    | 25         | 195             | 240       |
| CRCLSD525    | 5    | 25         | 240             | 285       |
| CRCLSD625    | 6    | 25         | 285             | 330       |

## Performance Data - CRCLSD 25MM Slot width supply application

| No. Slots | Total Press.      | Horiz. | 1   |     | 4   |     | 9   |      | 16   |      | 24   |      | 35   |      | 49   |      | 62   |      |
|-----------|-------------------|--------|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|
|           | Pascals.          | Vert.  | 1   | 2   | 6   | 10  | 15  | 21   | 29   | 37   |      |      |      |      |      |      |      |      |
| 1         | Lit / sec / metre |        | 12  |     | 25  |     | 37  |      | 50   |      | 65   |      | 75   |      | 90   |      | 100  |      |
|           | NR                |        | -   |     | -   |     | 16  |      | 25   |      | 32   |      | 37   |      | 42   |      | 46   |      |
|           | Throw             | Hor.   | 0.1 | 1   | 0.4 | 3.4 | 1   | 4    | 1.8  | 4.6  | 2.8  | 5.2  | 3.4  | 5.8  | 4.8  | 6.2  | 3.8  | 6.8  |
| 2         | in metres         |        | 0.6 |     | 2.4 |     | 3.8 |      | 4.4  |      | 4.6  |      | 5.2  |      | 5.6  |      | 5.8  |      |
|           | Lit / sec / metre |        | 25  |     | 50  |     | 75  |      | 100  |      | 125  |      | 150  |      | 175  |      | 200  |      |
|           | NR                |        | -   |     | -   |     | 21  |      | 30   |      | 37   |      | 42   |      | 47   |      | 51   |      |
| 3         | Throw             | Hor.   | 0.4 | 1.8 | 1   | 4.6 | 1.8 | 5.8  | 3.4  | 6.8  | 4.4  | 7.4  | 4.6  | 8.2  | 5    | 8.2  | 5.6  | 9.6  |
|           | in metres         |        | 1.6 |     | 3.4 |     | 5   |      | 5.8  |      | 6.8  |      | 7.6  |      | 8    |      | 8.6  |      |
|           | Lit / sec / metre |        | 37  |     | 75  |     | 115 |      | 150  |      | 185  |      | 225  |      | 260  |      | 300  |      |
| 4         | NR                |        | -   |     | 16  |     | 24  |      | 33   |      | 40   |      | 45   |      | 50   |      | 54   |      |
|           | Throw             | Hor.   | 0.4 | 3.2 | 1.2 | 5.8 | 3.2 | 7    | 4    | 8.2  | 5    | 9.2  | 5.8  | 9.8  | 6.2  | 10.8 | 6.8  | 11.4 |
|           | in metres         |        | 2.2 |     | 4   |     | 6.2 |      | 7.4  |      | 8.2  |      | 8.8  |      | 9.8  |      | 10.4 |      |
| 5         | Lit / sec / metre |        | 50  |     | 100 |     | 150 |      | 200  |      | 250  |      | 300  |      | 350  |      | 400  |      |
|           | NR                |        | -   |     | 13  |     | 26  |      | 35   |      | 42   |      | 47   |      | 52   |      | 56   |      |
|           | Throw             | Hor.   | 0.6 | 3.4 | 1.8 | 6.8 | 3.8 | 8.2  | 4.6  | 9.6  | 6.2  | 10.4 | 6.8  | 11.4 | 7.4  | 12.2 | 7.6  | 13.2 |
| 6         | in metres         |        | -   |     | 13  |     | 26  |      | 35   |      | 42   |      | 47   |      | 52   |      | 56   |      |
|           | Lit / sec / metre |        | 65  |     | 125 |     | 185 |      | 250  |      | 310  |      | 375  |      | 435  |      | 495  |      |
|           | NR                |        | -   |     | 14  |     | 27  |      | 36   |      | 43   |      | 48   |      | 53   |      | 57   |      |
| 7         | Throw             | Hor.   | 0.6 | 4   | 2.4 | 7.4 | 4   | 9.2  | 5.6  | 10.4 | 6.8  | 11.6 | 7.4  | 12.8 | 8    | 13.8 | 8.6  | 14.6 |
|           | in metres         |        | 2.8 |     | 5.2 |     | 7.6 |      | 9.6  |      | 10.4 |      | 11.6 |      | 12.6 |      | 13.2 |      |
|           | Lit / sec / metre |        | 75  |     | 150 |     | 225 |      | 300  |      | 375  |      | 445  |      | 520  |      | 595  |      |
| 8         | NR                |        | -   |     | 15  |     | 28  |      | 37   |      | 44   |      | 49   |      | 54   |      | 58   |      |
|           | Throw             | Hor.   | 1   | 4.4 | 2.8 | 8.2 | 4.6 | 9.8  | 5.8  | 11.4 | 7.4  | 12.8 | 8.2  | 13.8 | 8.8  | 15   | 9.2  | 16   |
|           | in metres         |        | 2.8 |     | 5.8 |     | 8.6 |      | 10.4 |      | 11.6 |      | 12.6 |      | 13.8 |      | 14.6 |      |
| 9         | Lit / sec / metre |        | 90  |     | 175 |     | 260 |      | 350  |      | 435  |      | 520  |      | 610  |      | 695  |      |
|           | NR                |        | -   |     | 16  |     | 29  |      | 38   |      | 45   |      | 50   |      | 55   |      | 59   |      |
|           | Throw             | Hor.   | 1   | 4.6 | 3.2 | 8.6 | 4.6 | 10.8 | 6.4  | 12.2 | 8    | 13.8 | 8.8  | 15   | 9.6  | 16.2 | 10.2 | 17.2 |
| 10        | in metres         |        | 3.2 |     | 6.2 |     | 9.2 |      | 11   |      | 12.6 |      | 13.8 |      | 14.6 |      | 16   |      |
|           | Lit / sec / metre |        | 100 |     | 200 |     | 300 |      | 400  |      | 495  |      | 595  |      | 695  |      | 795  |      |
|           | NR                |        | -   |     | 17  |     | 30  |      | 39   |      | 46   |      | 51   |      | 56   |      | 60   |      |
| 11        | Throw             | Hor.   | 1.2 | 5   | 3.4 | 9.6 | 5   | 11.4 | 6.8  | 13.2 | 8.6  | 14.6 | 9.2  | 16   | 10.2 | 17.2 | 10.8 | 18.4 |
|           | in metres         |        | 3.4 |     | 6.8 |     | 9.8 |      | 12   |      | 13.2 |      | 14.6 |      | 16   |      | 16.8 |      |

## Performance Data - CRCLSD 25MM Slot width return application

| No. Slot | Negative Static Pressure in Pascals | 5   | 10  | 18  | 27  | 40  | 54  | 70  | 112  |
|----------|-------------------------------------|-----|-----|-----|-----|-----|-----|-----|------|
| 1        | Lit / sec / metre                   | 31  | 47  | 65  | 80  | 95  | 110 | 125 | 155  |
|          | NR                                  | -   | 14  | 22  | 28  | 33  | 37  | 41  | 47   |
| 2        | Lit / sec / metre                   | 65  | 95  | 125 | 155 | 185 | 220 | 250 | 310  |
|          | NR                                  | -   | 17  | 25  | 31  | 36  | 40  | 44  | 50   |
| 3        | Lit / sec / metre                   | 95  | 140 | 185 | 235 | 280 | 325 | 375 | 465  |
|          | NR                                  | -   | 19  | 27  | 33  | 38  | 42  | 46  | 52   |
| 4        | Lit / sec / metre                   | 125 | 185 | 250 | 310 | 375 | 435 | 495 | 620  |
|          | NR                                  | -   | 20  | 28  | 34  | 39  | 43  | 47  | 53   |
| 5        | Lit / sec / metre                   | 155 | 235 | 310 | 390 | 465 | 545 | 620 | 775  |
|          | NR                                  | -   | 21  | 29  | 35  | 40  | 44  | 48  | 54   |
| 6        | Lit / sec / metre                   | 185 | 280 | 375 | 465 | 560 | 650 | 745 | 930  |
|          | NR                                  | -   | 22  | 30  | 36  | 41  | 45  | 49  | 55   |
| 7        | Lit / sec / metre                   | 220 | 325 | 435 | 545 | 650 | 760 | 870 | 1085 |
|          | NR                                  | -   | 23  | 31  | 37  | 42  | 46  | 50  | 56   |
| 8        | Lit / sec / metre                   | 250 | 375 | 495 | 620 | 745 | 870 | 995 | 1240 |
|          | NR                                  | -   | 23  | 31  | 37  | 42  | 46  | 50  | 56   |

# CUSTOM REMOVABLE CORE LINEAR SLOT DIFFUSER

| PRODUCT CODE | SLOT | SLOT WIDTH | EXACT NECK SIZE | FACE SIZE |
|--------------|------|------------|-----------------|-----------|
| CRCLSD120    | 1    | 20         | 55              | 100       |
| CRCLSD220    | 2    | 20         | 95              | 140       |
| CRCLSD320    | 3    | 20         | 135             | 180       |
| CRCLSD420    | 4    | 20         | 175             | 220       |
| CRCLSD520    | 5    | 20         | 215             | 260       |
| CRCLSD620    | 6    | 20         | 255             | 300       |

## Performance Data - CRCLSD 20MM Slot width supply application

| No. Slots | Total Press. Pascals. | Horiz. |     | 1.5 |     | 4    |      | 8    |      | 14   |     | 23   |     | 31   |     | 44   |     | 58   |  |
|-----------|-----------------------|--------|-----|-----|-----|------|------|------|------|------|-----|------|-----|------|-----|------|-----|------|--|
|           |                       | Vert.  | 1   | 3   | 6   | 11   | 17   | 24   | 31   | 42   |     |      |     |      |     |      |     |      |  |
| 1         | Lit / sec / metre     |        | 9   | 19  | 28  | 37   | 47   | 55   | 65   | 75   |     |      |     |      |     |      |     |      |  |
|           | NR                    |        | -   | -   | -   | 21   | 27   | 33   | 38   | 42   |     |      |     |      |     |      |     |      |  |
|           | Throw                 | Hor.   | 0.4 | 1   | 0.4 | 2.8  | 1    | 3.4  | 1.6  | 4    | 2.4 | 4.6  | 2.8 | 5    | 3.2 | 5.2  | 3.4 | 8    |  |
|           | in metres             | Vert.  | 0.6 | 1.8 | 3.2 | 3.8  | 4.4  | 4.6  | 5    | 5.2  |     |      |     |      |     |      |     |      |  |
| 2         | Lit / sec / metre     |        | 19  | 37  | 55  | 75   | 95   | 115  | 130  | 150  |     |      |     |      |     |      |     |      |  |
|           | NR                    |        | -   | -   | 16  | 26   | 32   | 38   | 43   | 47   |     |      |     |      |     |      |     |      |  |
|           | Throw                 | Hor.   | 0.4 | 1.6 | 0.6 | 4    | 1.6  | 5    | 2.8  | 8    | 3.4 | 6.4  | 4   | 7    | 4.4 | 6    | 4.6 | 82   |  |
|           | in metres             | Vert.  | 1.2 | 2.8 | 4.4 | 5.2  | 5.8  | 6.4  | 7    | 7.4  |     |      |     |      |     |      |     |      |  |
| 3         | Lit / sec / metre     |        | 28  | 55  | 85  | 115  | 140  | 170  | 195  | 225  |     |      |     |      |     |      |     |      |  |
|           | NR                    |        | -   | -   | 19  | 29   | 35   | 41   | 46   | 50   |     |      |     |      |     |      |     |      |  |
|           | Throw                 | Hor.   | 0.4 | 2.4 | 1.2 | 5    | 2.2  | 6.2  | 3.4  | 7    | 4.4 | 8    | 5   | 8.6  | 5.6 | 9.2  | 5.8 | 9.8  |  |
|           | in metres             | Vert.  | 1.8 | 3.4 | 5.2 | 6.4  | 7    | 8    | 8.6  | 9.2  |     |      |     |      |     |      |     |      |  |
| 4         | Lit / sec / metre     |        | 37  | 75  | 115 | 150  | 185  | 225  | 260  | 300  |     |      |     |      |     |      |     |      |  |
|           | NR                    |        | -   | -   | 21  | 31   | 37   | 43   | 48   | 52   |     |      |     |      |     |      |     |      |  |
|           | Throw                 | Hor.   | 0.4 | 3.2 | 1.6 | 5.8  | 3.2  | 7    | 4    | 8.2  | 5   | 9.2  | 5.8 | 9.8  | 6.4 | 10.8 | 6.8 | 11.4 |  |
|           | in metres             | Vert.  | 1.8 | 4   | 5.8 | 7.4  | 8.2  | 9.2  | 9.8  | 10.4 |     |      |     |      |     |      |     |      |  |
| 5         | Lit / sec / metre     |        | 47  | 95  | 140 | 185  | 235  | 280  | 325  | 375  |     |      |     |      |     |      |     |      |  |
|           | NR                    |        | -   | -   | 22  | 32   | 38   | 44   | 49   | 53   |     |      |     |      |     |      |     |      |  |
|           | Throw                 | Hor.   | 0.6 | 3.4 | 1.8 | 6.4  | 3.4  | 8    | 4.6  | 9.2  | 5.6 | 10.2 | 6.4 | 11   | 7   | 12   | 7.6 | 12.8 |  |
|           | in metres             | Vert.  | 2.2 | 4.4 | 6.4 | 8.2  | 9.2  | 10.2 | 11   | 11.6 |     |      |     |      |     |      |     |      |  |
| 6         | Lit / sec / metre     |        | 55  | 115 | 170 | 225  | 280  | 335  | 390  | 445  |     |      |     |      |     |      |     |      |  |
|           | NR                    |        | -   | -   | 23  | 33   | 39   | 45   | 50   | 54   |     |      |     |      |     |      |     |      |  |
|           | Throw                 | Hor.   | 0.6 | 3.8 | 2.4 | 7    | 3.8  | 8.6  | 5    | 9.8  | 6.2 | 11   | 7   | 12.2 | 7.6 | 12.2 | 8   | 13.8 |  |
|           | in metres             | Vert.  | 2.4 | 4.6 | 7.4 | 9.2  | 10.2 | 11   | 12   | 12.8 |     |      |     |      |     |      |     |      |  |
| 7         | Lit / sec / metre     |        | 65  | 130 | 195 | 260  | 325  | 390  | 455  | 520  |     |      |     |      |     |      |     |      |  |
|           | NR                    |        | -   | 13  | 24  | 34   | 40   | 46   | 51   | 55   |     |      |     |      |     |      |     |      |  |
|           | Throw                 | Hor.   | 1   | 3.8 | 2.8 | 7.6  | 4    | 9.2  | 5.6  | 10.8 | 6.8 | 12   | 7.6 | 13.2 | 8.2 | 14   | 8.8 | 15   |  |
|           | in metres             | Vert.  | 2.4 | 5   | 7.4 | 9.8  | 11   | 12   | 12.8 | 13.8 |     |      |     |      |     |      |     |      |  |
| 8         | Lit / sec / metre     |        | 75  | 150 | 225 | 300  | 375  | 445  | 520  | 595  |     |      |     |      |     |      |     |      |  |
|           | NR                    |        | -   | 14  | 25  | 35   | 41   | 47   | 52   | 56   |     |      |     |      |     |      |     |      |  |
|           | Throw                 | Hor.   | 1.2 | 4.4 | 2.8 | 8.2  | 4.4  | 9.8  | 5.8  | 11.4 | 7.4 | 12.8 | 8   | 13.8 | 8.8 | 15   | 9.2 | 16   |  |
|           | in metres             | Vert.  | 2.4 | 5   | 7.4 | 10.2 | 11.6 | 12.8 | 13.8 | 14.6 |     |      |     |      |     |      |     |      |  |

## Performance Data - CRCLSD 25MM Slot width return application

| No. Slot | Negative Static Pressure in Pascals | 2   | 7   | 16  | 27  | 42  | 62  | 86  | 112 |
|----------|-------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| 1        | Lit / sec / metre                   | 15  | 31  | 47  | 65  | 80  | 95  | 110 | 125 |
|          | NR                                  | -   | -   | 21  | 29  | 35  | 40  | 44  | 48  |
| 2        | Lit / sec / metre                   | 31  | 65  | 95  | 125 | 155 | 185 | 220 | 250 |
|          | NR                                  | -   | 13  | 24  | 32  | 38  | 43  | 47  | 51  |
| 3        | Lit / sec / metre                   | 47  | 95  | 140 | 185 | 235 | 280 | 325 | 375 |
|          | NR                                  | -   | 15  | 26  | 34  | 40  | 45  | 49  | 53  |
| 4        | Lit / sec / metre                   | 65  | 125 | 185 | 250 | 310 | 375 | 435 | 495 |
|          | NR                                  | -   | 16  | 27  | 35  | 41  | 46  | 50  | 54  |
| 5        | Lit / sec / metre                   | 80  | 155 | 235 | 310 | 390 | 465 | 545 | 620 |
|          | NR                                  | -   | 17  | 28  | 36  | 42  | 47  | 51  | 55  |
| 6        | Lit / sec / metre                   | 95  | 185 | 280 | 375 | 465 | 560 | 650 | 745 |
|          | NR                                  | -   | 18  | 29  | 37  | 43  | 48  | 52  | 56  |
| 7        | Lit / sec / metre                   | 110 | 220 | 325 | 435 | 545 | 650 | 760 | 870 |
|          | NR                                  | -   | 19  | 30  | 38  | 44  | 49  | 53  | 57  |
| 8        | Lit / sec / metre                   | 125 | 250 | 375 | 495 | 620 | 745 | 870 | 995 |
|          | NR                                  | -   | 19  | 30  | 38  | 44  | 49  | 53  | 57  |